

Title (en)

PROCESSING ENVIRONMENTAL DATA OF AN ENVIRONMENT OF A VEHICLE

Title (de)

VERARBEITUNG VON UMGEBUNGSDATEN EINER UMGEBUNG EINES FAHRZEUGS

Title (fr)

TRAITEMENT DE DONNÉES ENVIRONNEMENTALES DE L'ENVIRONNEMENT D'UN VÉHICULE

Publication

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Application

EP 19465516 A 20190327

Priority

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Abstract (en)

The invention is related to a method, a computer program code, and an apparatus for processing environmental data of an environment of a vehicle. The invention is further related to a driver assistance system, which makes use of such a method or apparatus, and to an autonomous or semi-autonomous vehicle comprising such a driver assistance system. Depth data of the environment of the vehicle are received (10) from at least one depth sensor of the vehicle. Furthermore, thermal data of the environment of the vehicle are received (11) from at least one thermal sensor of the vehicle. The depth data and the thermal data are then fused (12) to generate fused environmental data.

IPC 8 full level

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Citation (search report)

- [X] US 2017220876 A1 20170803 - GAO PETER [US], et al
- [X] WO 2017123477 A1 20170720 - FLIR SYSTEMS [US]
- [X] RICHARD GROVER ET AL: "A Low-level Fusion of Millimetre-Wave Radar and Nightvision Imaging for Enhanced Characterisation of a Cluttered Environment", PROCEEDINGS 2001 AUSTRALIAN CONFERENCE ON ROBOTICS AND AUTOMATION, 15 November 2001 (2001-11-15), Sydney, pages 98 - 103, XP055355198

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